

# Global Gunn Diode Market Research Report 2026(Status and Outlook)

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## Abstracts

A Gunn diode, also known as a transferred electron device (TED), is a form of diode, a two-terminal semiconductor electronic component, with negative resistance, used in high-frequency electronics. It is based on the "Gunn effect" discovered in 1962 by physicist J. B. Gunn. Its largest use is in electronic oscillators to generate microwaves, in applications such as radar speed guns, microwave relay data link transmitters, and automatic door openers. According to our research, the global Electronic Components market is approximately USD 466.61 billion in 2022. The Asia-Pacific region is a major market for electronic components. The downstream application fields of the electronic components industry are extensive, including communication equipment, consumer electronics, automotive electronics, smart home, industrial control, military security and other fields. Unlike the strong industry demand in 2021, downstream industry demand in 2022 showed a differentiated trend. The demand for traditional electronic applications represented by mobile phones and computers has turned weak, which has a greater impact on the demand of the entire industry; the demand for communication equipment and data centers has maintained growth but slowed down, and the industrial and Internet of Things driven by digital transformation and the development of artificial intelligence technology. The steady growth of application demand and the accelerated development of the new energy vehicle market can offset the decline in some consumer markets and provide support for long-term demand growth.

The global Gunn Diode market size was estimated at USD 828.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Gunn Diode market, covering all critical facets from a broad macroeconomic overview to detailed

micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Gunn Diode market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Gunn Diode market.

### **Global Gunn Diode Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

American Microsemiconductor

Avnet

Microsemi

Panasonic Corporation

Rohm Semiconductors  
Sanken Electric  
SEMITEC  
TeraSense Group  
Thales Group

### **Market Segmentation (by Type)**

Gallium Arsenide (GaAs)  
Indium Phosphide (InP)  
Others

### **Market Segmentation (by Application)**

Industrial  
Automotive  
Defense  
Railways  
Others

### **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value  
In-depth analysis of the Gunn Diode Market  
Overview of the regional outlook of the Gunn Diode Market:

## **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

## **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Gunn Diode Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Gunn Diode, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain  
Market dynamics scenario, along with growth opportunities of the market in the years to come  
6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Gunn Diode
- 1.2 Key Market Segments
  - 1.2.1 Gunn Diode Segment by Type
  - 1.2.2 Gunn Diode Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 GUNN DIODE MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Gunn Diode Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Gunn Diode Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 GUNN DIODE MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Gunn Diode Product Life Cycle
- 3.3 Global Gunn Diode Sales by Manufacturers (2020-2025)
- 3.4 Global Gunn Diode Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Gunn Diode Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Gunn Diode Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Gunn Diode Market Competitive Situation and Trends
  - 3.8.1 Gunn Diode Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest Gunn Diode Players Market Share by Revenue
  - 3.8.3 Mergers & Acquisitions, Expansion

### **4 GUNN DIODE INDUSTRY CHAIN ANALYSIS**

- 4.1 Gunn Diode Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF GUNN DIODE MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Gunn Diode Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Gunn Diode Market
- 5.7 ESG Ratings of Leading Companies

## **6 GUNN DIODE MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Gunn Diode Sales Market Share by Type (2020-2025)
- 6.3 Global Gunn Diode Market Size by Type (2020-2025)
- 6.4 Global Gunn Diode Price by Type (2020-2025)

## **7 GUNN DIODE MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Gunn Diode Market Sales by Application (2020-2025)
- 7.3 Global Gunn Diode Market Size (M USD) by Application (2020-2025)
- 7.4 Global Gunn Diode Sales Growth Rate by Application (2020-2025)

## **8 GUNN DIODE MARKET SALES BY REGION**

### 8.1 Global Gunn Diode Sales by Region

#### 8.1.1 Global Gunn Diode Sales by Region

#### 8.1.2 Global Gunn Diode Sales Market Share by Region

### 8.2 Global Gunn Diode Market Size by Region

#### 8.2.1 Global Gunn Diode Market Size by Region

#### 8.2.2 Global Gunn Diode Market Size by Region

### 8.3 North America

#### 8.3.1 North America Gunn Diode Sales by Country

#### 8.3.2 North America Gunn Diode Market Size by Country

#### 8.3.3 U.S. Market Overview

#### 8.3.4 Canada Market Overview

#### 8.3.5 Mexico Market Overview

### 8.4 Europe

#### 8.4.1 Europe Gunn Diode Sales by Country

#### 8.4.2 Europe Gunn Diode Market Size by Country

#### 8.4.3 Germany Market Overview

#### 8.4.4 France Market Overview

#### 8.4.5 U.K. Market Overview

#### 8.4.6 Italy Market Overview

#### 8.4.7 Spain Market Overview

### 8.5 Asia Pacific

#### 8.5.1 Asia Pacific Gunn Diode Sales by Region

#### 8.5.2 Asia Pacific Gunn Diode Market Size by Region

#### 8.5.3 China Market Overview

#### 8.5.4 Japan Market Overview

#### 8.5.5 South Korea Market Overview

#### 8.5.6 India Market Overview

#### 8.5.7 Southeast Asia Market Overview

### 8.6 South America

#### 8.6.1 South America Gunn Diode Sales by Country

#### 8.6.2 South America Gunn Diode Market Size by Country

#### 8.6.3 Brazil Market Overview

#### 8.6.4 Argentina Market Overview

#### 8.6.5 Columbia Market Overview

### 8.7 Middle East and Africa

#### 8.7.1 Middle East and Africa Gunn Diode Sales by Region

- 8.7.2 Middle East and Africa Gunn Diode Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

## **9 GUNN DIODE MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Gunn Diode by Region(2020-2025)
- 9.2 Global Gunn Diode Revenue Market Share by Region (2020-2025)
- 9.3 Global Gunn Diode Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Gunn Diode Production
  - 9.4.1 North America Gunn Diode Production Growth Rate (2020-2025)
  - 9.4.2 North America Gunn Diode Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Gunn Diode Production
  - 9.5.1 Europe Gunn Diode Production Growth Rate (2020-2025)
  - 9.5.2 Europe Gunn Diode Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Gunn Diode Production (2020-2025)
  - 9.6.1 Japan Gunn Diode Production Growth Rate (2020-2025)
  - 9.6.2 Japan Gunn Diode Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Gunn Diode Production (2020-2025)
  - 9.7.1 China Gunn Diode Production Growth Rate (2020-2025)
  - 9.7.2 China Gunn Diode Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

- 10.1 American Microsemiconductor
  - 10.1.1 American Microsemiconductor Basic Information
  - 10.1.2 American Microsemiconductor Gunn Diode Product Overview
  - 10.1.3 American Microsemiconductor Gunn Diode Product Market Performance
  - 10.1.4 American Microsemiconductor Business Overview
  - 10.1.5 American Microsemiconductor SWOT Analysis
  - 10.1.6 American Microsemiconductor Recent Developments
- 10.2 Avnet
  - 10.2.1 Avnet Basic Information
  - 10.2.2 Avnet Gunn Diode Product Overview
  - 10.2.3 Avnet Gunn Diode Product Market Performance

- 10.2.4 Avnet Business Overview
- 10.2.5 Avnet SWOT Analysis
- 10.2.6 Avnet Recent Developments
- 10.3 Microsemi
  - 10.3.1 Microsemi Basic Information
  - 10.3.2 Microsemi Gunn Diode Product Overview
  - 10.3.3 Microsemi Gunn Diode Product Market Performance
  - 10.3.4 Microsemi Business Overview
  - 10.3.5 Microsemi SWOT Analysis
  - 10.3.6 Microsemi Recent Developments
- 10.4 Panasonic Corporation
  - 10.4.1 Panasonic Corporation Basic Information
  - 10.4.2 Panasonic Corporation Gunn Diode Product Overview
  - 10.4.3 Panasonic Corporation Gunn Diode Product Market Performance
  - 10.4.4 Panasonic Corporation Business Overview
  - 10.4.5 Panasonic Corporation Recent Developments
- 10.5 Rohm Semiconductors
  - 10.5.1 Rohm Semiconductors Basic Information
  - 10.5.2 Rohm Semiconductors Gunn Diode Product Overview
  - 10.5.3 Rohm Semiconductors Gunn Diode Product Market Performance
  - 10.5.4 Rohm Semiconductors Business Overview
  - 10.5.5 Rohm Semiconductors Recent Developments
- 10.6 Sanken Electric
  - 10.6.1 Sanken Electric Basic Information
  - 10.6.2 Sanken Electric Gunn Diode Product Overview
  - 10.6.3 Sanken Electric Gunn Diode Product Market Performance
  - 10.6.4 Sanken Electric Business Overview
  - 10.6.5 Sanken Electric Recent Developments
- 10.7 SEMITEC
  - 10.7.1 SEMITEC Basic Information
  - 10.7.2 SEMITEC Gunn Diode Product Overview
  - 10.7.3 SEMITEC Gunn Diode Product Market Performance
  - 10.7.4 SEMITEC Business Overview
  - 10.7.5 SEMITEC Recent Developments
- 10.8 TeraSense Group
  - 10.8.1 TeraSense Group Basic Information
  - 10.8.2 TeraSense Group Gunn Diode Product Overview
  - 10.8.3 TeraSense Group Gunn Diode Product Market Performance
  - 10.8.4 TeraSense Group Business Overview

10.8.5 TeraSense Group Recent Developments

10.9 Thales Group

10.9.1 Thales Group Basic Information

10.9.2 Thales Group Gunn Diode Product Overview

10.9.3 Thales Group Gunn Diode Product Market Performance

10.9.4 Thales Group Business Overview

10.9.5 Thales Group Recent Developments

## **11 GUNN DIODE MARKET FORECAST BY REGION**

11.1 Global Gunn Diode Market Size Forecast

11.2 Global Gunn Diode Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Gunn Diode Market Size Forecast by Country

11.2.3 Asia Pacific Gunn Diode Market Size Forecast by Region

11.2.4 South America Gunn Diode Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Gunn Diode by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Gunn Diode Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Gunn Diode by Type (2026-2035)

12.1.2 Global Gunn Diode Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Gunn Diode by Type (2026-2035)

12.2 Global Gunn Diode Market Forecast by Application (2026-2035)

12.2.1 Global Gunn Diode Sales (K Units) Forecast by Application

12.2.2 Global Gunn Diode Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Gunn Diode Market Size by Type (M USD)
- Table 4. Global Gunn Diode Market Size by Application
- Table 5. Gunn Diode Market Size Comparison by Region (M USD)
- Table 6. Global Gunn Diode Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Gunn Diode Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Gunn Diode Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Gunn Diode Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Gunn Diode as of 2025)
- Table 11. Global Market Gunn Diode Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Gunn Diode Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Gunn Diode Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Gunn Diode Sales by Type (K Units)
- Table 27. Global Gunn Diode Market Size by Type (M USD)
- Table 28. Global Gunn Diode Sales (K Units) by Type (2020-2025)
- Table 29. Global Gunn Diode Sales Market Share by Type (2020-2025)
- Table 30. Global Gunn Diode Market Size (M USD) by Type (2020-2025)
- Table 31. Global Gunn Diode Market Share by Type (2020-2025)
- Table 32. Global Gunn Diode Price (USD/Unit) by Type (2020-2025)

- Table 33. Global Gunn Diode Sales (K Units) by Application
- Table 34. Global Gunn Diode Market Size by Application
- Table 35. Global Gunn Diode Sales by Application (2020-2025) & (K Units)
- Table 36. Global Gunn Diode Sales Market Share by Application (2020-2025)
- Table 37. Global Gunn Diode Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Gunn Diode Market Share by Application (2020-2025)
- Table 39. Global Gunn Diode Sales Growth Rate by Application (2020-2025)
- Table 40. Global Gunn Diode Sales by Region (2020-2025) & (K Units)
- Table 41. Global Gunn Diode Sales Market Share by Region (2020-2025)
- Table 42. Global Gunn Diode Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Gunn Diode Market Size by Region (2020-2025)
- Table 44. North America Gunn Diode Sales by Country (2020-2025) & (K Units)
- Table 45. North America Gunn Diode Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Gunn Diode Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Gunn Diode Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Gunn Diode Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Gunn Diode Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Gunn Diode Sales by Country (2020-2025) & (K Units)
- Table 51. South America Gunn Diode Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Gunn Diode Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Gunn Diode Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Gunn Diode Production (K Units) by Region(2020-2025)
- Table 55. Global Gunn Diode Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Gunn Diode Revenue Market Share by Region (2020-2025)
- Table 57. Global Gunn Diode Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Gunn Diode Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Gunn Diode Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Gunn Diode Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Gunn Diode Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. American Microsemiconductor Basic Information
- Table 63. American Microsemiconductor Gunn Diode Product Overview
- Table 64. American Microsemiconductor Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. American Microsemiconductor Business Overview

Table 66. American Microsemiconductor SWOT Analysis

Table 67. American Microsemiconductor Recent Developments

Table 68. Avnet Basic Information

Table 69. Avnet Gunn Diode Product Overview

Table 70. Avnet Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Avnet Business Overview

Table 72. Avnet SWOT Analysis

Table 73. Avnet Recent Developments

Table 74. Microsemi Basic Information

Table 75. Microsemi Gunn Diode Product Overview

Table 76. Microsemi Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Microsemi Business Overview

Table 78. Microsemi SWOT Analysis

Table 79. Microsemi Recent Developments

Table 80. Panasonic Corporation Basic Information

Table 81. Panasonic Corporation Gunn Diode Product Overview

Table 82. Panasonic Corporation Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Panasonic Corporation Business Overview

Table 84. Panasonic Corporation Recent Developments

Table 85. Rohm Semiconductors Basic Information

Table 86. Rohm Semiconductors Gunn Diode Product Overview

Table 87. Rohm Semiconductors Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Rohm Semiconductors Business Overview

Table 89. Rohm Semiconductors Recent Developments

Table 90. Sanken Electric Basic Information

Table 91. Sanken Electric Gunn Diode Product Overview

Table 92. Sanken Electric Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Sanken Electric Business Overview

Table 94. Sanken Electric Recent Developments

Table 95. SEMITEC Basic Information

Table 96. SEMITEC Gunn Diode Product Overview

Table 97. SEMITEC Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 98. SEMITEC Business Overview
- Table 99. SEMITEC Recent Developments
- Table 100. TeraSense Group Basic Information
- Table 101. TeraSense Group Gunn Diode Product Overview
- Table 102. TeraSense Group Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. TeraSense Group Business Overview
- Table 104. TeraSense Group Recent Developments
- Table 105. Thales Group Basic Information
- Table 106. Thales Group Gunn Diode Product Overview
- Table 107. Thales Group Gunn Diode Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Thales Group Business Overview
- Table 109. Thales Group Recent Developments
- Table 110. Global Gunn Diode Sales Forecast by Region (2026-2035) & (K Units)
- Table 111. Global Gunn Diode Market Size Forecast by Region (2026-2035) & (M USD)
- Table 112. North America Gunn Diode Sales Forecast by Country (2026-2035) & (K Units)
- Table 113. North America Gunn Diode Market Size Forecast by Country (2026-2035) & (M USD)
- Table 114. Europe Gunn Diode Sales Forecast by Country (2026-2035) & (K Units)
- Table 115. Europe Gunn Diode Market Size Forecast by Country (2026-2035) & (M USD)
- Table 116. Asia Pacific Gunn Diode Sales Forecast by Region (2026-2035) & (K Units)
- Table 117. Asia Pacific Gunn Diode Market Size Forecast by Region (2026-2035) & (M USD)
- Table 118. South America Gunn Diode Sales Forecast by Country (2026-2035) & (K Units)
- Table 119. South America Gunn Diode Market Size Forecast by Country (2026-2035) & (M USD)
- Table 120. Middle East and Africa Gunn Diode Sales Forecast by Country (2026-2035) & (Units)
- Table 121. Middle East and Africa Gunn Diode Market Size Forecast by Country (2026-2035) & (M USD)
- Table 122. Global Gunn Diode Sales Forecast by Type (2026-2035) & (K Units)
- Table 123. Global Gunn Diode Market Size Forecast by Type (2026-2035) & (M USD)
- Table 124. Global Gunn Diode Price Forecast by Type (2026-2035) & (USD/Unit)
- Table 125. Global Gunn Diode Sales (K Units) Forecast by Application (2026-2035)
- Table 126. Global Gunn Diode Market Size Forecast by Application (2026-2035) & (M

USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Gunn Diode
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Gunn Diode Market Size (M USD), 2025-2035
- Figure 5. Global Gunn Diode Market Size (M USD) (2020-2035)
- Figure 6. Global Gunn Diode Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Gunn Diode Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Gunn Diode Product Life Cycle
- Figure 13. Gunn Diode Sales Share by Manufacturers in 2025
- Figure 14. Global Gunn Diode Revenue Share by Manufacturers in 2025
- Figure 15. Gunn Diode Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Gunn Diode Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Gunn Diode Revenue in 2025
- Figure 18. Industry Chain Map of Gunn Diode
- Figure 19. Global Gunn Diode Market PEST Analysis
- Figure 20. Global Gunn Diode Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Gunn Diode Market Share by Type
- Figure 27. Sales Market Share of Gunn Diode by Type (2020-2025)
- Figure 28. Sales Market Share of Gunn Diode by Type in 2025
- Figure 29. Market Share of Gunn Diode by Type (2020-2025)
- Figure 30. Market Share of Gunn Diode by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Gunn Diode Market Share by Application
- Figure 33. Global Gunn Diode Sales Market Share by Application (2020-2025)

- Figure 34. Global Gunn Diode Sales Market Share by Application in 2025
- Figure 35. Global Gunn Diode Market Share by Application (2020-2025)
- Figure 36. Global Gunn Diode Market Share by Application in 2025
- Figure 37. Global Gunn Diode Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Gunn Diode Sales Market Share by Region (2020-2025)
- Figure 39. Global Gunn Diode Market Size by Region (2020-2025)
- Figure 40. North America Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Gunn Diode Sales Market Share by Country in 2024
- Figure 43. North America Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Gunn Diode Market Size by Country in 2024
- Figure 45. U.S. Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Gunn Diode Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Gunn Diode Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Gunn Diode Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Gunn Diode Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Gunn Diode Sales Market Share by Country in 2024
- Figure 53. Europe Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Gunn Diode Market Size by Country in 2024
- Figure 55. Germany Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 56. Germany Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. France Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 58. France Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. U.K. Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 60. U.K. Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 61. Italy Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 62. Italy Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 63. Spain Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 64. Spain Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 65. Asia Pacific Gunn Diode Sales and Growth Rate (K Units)
- Figure 66. Asia Pacific Gunn Diode Sales Market Share by Region in 2024
- Figure 67. Asia Pacific Gunn Diode Market Size by Region in 2024
- Figure 68. China Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 69. China Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 70. Japan Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)
- Figure 71. Japan Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Gunn Diode Sales and Growth Rate (K Units)

Figure 79. South America Gunn Diode Sales Market Share by Country in 2024

Figure 80. South America Gunn Diode Market Size and Growth Rate (M USD)

Figure 81. South America Gunn Diode Market Size by Country in 2024

Figure 82. Brazil Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Gunn Diode Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Gunn Diode Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Gunn Diode Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Gunn Diode Market Size by Region in 2024

Figure 92. Saudi Arabia Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Gunn Diode Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Gunn Diode Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Gunn Diode Production Market Share by Region (2020-2025)

Figure 103. North America Gunn Diode Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Gunn Diode Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Gunn Diode Production (K Units) Growth Rate (2020-2025)

Figure 106. China Gunn Diode Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Gunn Diode Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Gunn Diode Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Gunn Diode Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Gunn Diode Market Share Forecast by Type (2026-2035)

Figure 111. Global Gunn Diode Sales Forecast by Application (2026-2035)

Figure 112. Global Gunn Diode Market Share Forecast by Application (2026-2035)

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